# OUTLINE — October 11, 2017

- Behavioral Economics Clicker Q's
- Overview of Macroeconomics
  - Growth of Total Output
  - Unemployment
  - Inflation
- Models of Macroeconomics

PS 2 due today/tomorrow in section

PS 3 distributed; due Mon/Tues 10/23-10/24 in section

### **Behavioral Economics**

- A very broad overview . . .
- Economic models characterized by
  - 1. Question
  - 2. Simplifications
  - 3. Assumptions about behavior
- Interested?
  - Econ 119 (Psych & Econ)
  - Econ 138 (Behavioral Econ)

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# **Example: Risk Aversion**

■ Two payouts, both with same mean (6.50).

Die roll	Payout A	Payout B
1	0	7
2	4	5
3	8	9
4	15	6
5	3	4
6	9	8

■ Which would you prefer? A? B? Click C for "either"

Robational Economics Oversions of Moore, Measures of Mannesonomy, Marca Modele

# **Example: Loss Aversion**

■ Two payouts, both with same mean (6.17) & SD (10).

Die roll	Payout A	Payout B
1	-5	0
2	10	10
3	15	25
4	-8	0
5	10	1
6	15	1

■ Which would you prefer? A? B? Click C for "either"

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# **Example: Loss Aversion**

- Do people hate losses more than they like wins?
- If so, implications for risk-taking behavior.
  - You own a stock that you bought for \$50 / share and it is now selling for \$30 / share.
  - You bought a house for \$800,000. If you sold it now, you'll only get \$600,000. You've been offered a new job at a good salary that is 1,000 miles away.

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# **Example: Hyperbolic Discounting**

How patient are you?

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#### **Macroeconomics**

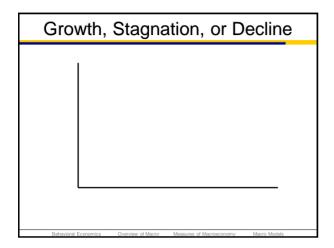
- The economy as a whole
- Three main topics
  - (Long-run) Economic Growth
  - Unemployment
  - Inflation

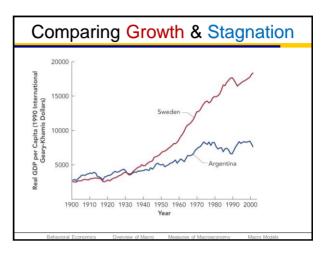
# New meanings of "short" & "long"

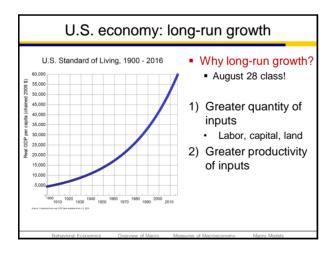
- In micro, precise definitions
  - Short run = so short that the firm can't change amount of capital (K)
  - Long run = long enough that the firm can exit or enter or change K
- In macro, not-so-precise
  - Long run = decade-to-decade (10 years)
    OR generation-to-generation (20-25 years)
  - Short run = a couple of years or so, maybe more

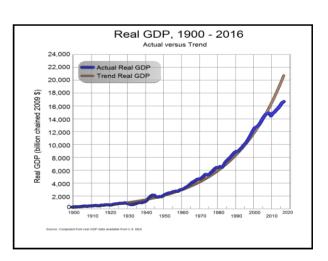
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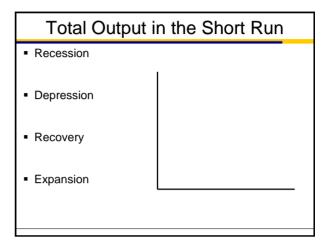


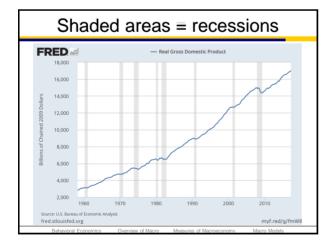


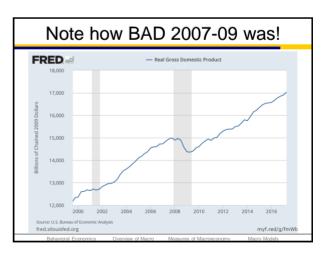
# Various definitions of "growth"

- Context matters . . . A lot.
- "Economic growth" can mean . . .
  - ... Long-run increases in potential GDP
  - . . . Long-run increases in actual GDP
  - ... Short-run increases in actual GDP

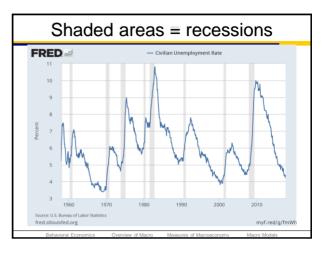
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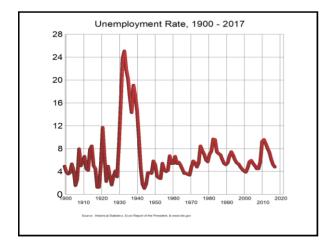


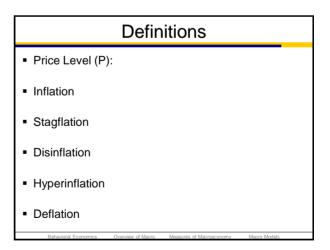


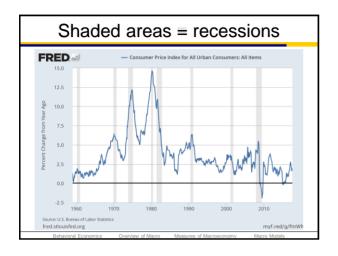


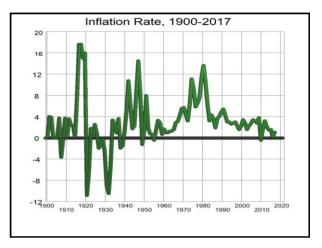








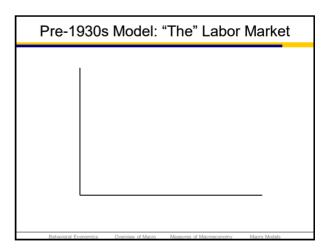




### Recall: Economic Models

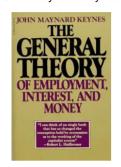
- Models are how economists answer questions
- Each model is characterized by
  - 1. Question
  - 2. Simplifications or Abstractions
  - 3. Assumptions about Behavior
- Change assumption → Change model
- To evaluate policy, compare policy's results with the counterfactual (what result would have been in absence of policy), not with the past
- Formulate the counterfactual by using models

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# What Determines Unemployment?

John Maynard Keynes





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# What Determines Unemployment?

- John Maynard Keynes
- Unemployment is determined by employment which is determined by output produced which is determined by aggregate demand for output
- Key idea:

Someone will hire you if they can sell what you produce

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### What about inflation?

- Phillips Curve (return to this: November 20)
- Prices & inflation depend upon
   Costs of production which depend upon
   Supply & Demand for inputs which depend upon
   Expectations of prices and
   Productivity of inputs and
   Amount of output produced

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